

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/719,998	11/21/2003	Takashi Fujise	9319S-000579	1502	
27572	7590 08/25/2005		EXAMINER		
HARNESS,	DICKEY & PIERCE, I	STERRETT, JEFFREY L			
P.O. BOX 828 BLOOMFIELD HILLS, MI 48303			ART UNIT	PAPER NUMBER	
DECOMM 1E	ED IIIEES, WII 40303		2838	2838	
			DATE MAIL ED. 0005000	•	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Assistant Occurrence	10/719,998	FUJISE, TAKASHI			
Office Action Summary	Examiner	Art Unit			
	Jeffrey L. Sterrett	2838			
The MAILING DATE of this communic Period for Reply	ation appears on the cover sheet with the o	correspondence address			
A SHORTENED STATUTORY PERIOD FO THE MAILING DATE OF THIS COMMUNIO - Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this commu - If the period for reply specified above is less than thirty (30) - If NO period for reply is specified above, the maximum state - Failure to reply within the set or extended period for reply we Any reply received by the Office later than three months aft earned patent term adjustment. See 37 CFR 1.704(b).	CATION. f 37 CFR 1.136(a). In no event, however, may a reply be tirnication. days, a reply within the statutory minimum of thirty (30) day story period will apply and will expire SIX (6) MONTHS from ill, by statute, cause the application to become ABANDONE	mely filed ys will be considered timety. Ithe mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed	on				
2a) This action is FINAL.	o)⊠ This action is non-final.				
	or allowance except for formal matters, pro e under <i>Ex parte Quayle</i> , 1935 C.D. 11, 4				
Disposition of Claims					
4) ☐ Claim(s) 1-10 is/are pending in the ap 4a) Of the above claim(s) is/are 5) ☐ Claim(s) 4-6 and 10 is/are allowed. 6) ☐ Claim(s) 1,2 and 7 is/are rejected. 7) ☐ Claim(s) 3,8 and 9 is/are objected to. 8) ☐ Claim(s) are subject to restriction	e withdrawn from consideration.				
Application Papers					
	2003 is/are: a)⊠ accepted or b)□ objection to the drawing(s) be held in abeyance. Se he correction is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119		•			
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary				
 Notice of Draftsperson's Patent Drawing Review (PT Information Disclosure Statement(s) (PTO-1449 or Paper No(s)/Mail Date 4/15/05. 		ate Patent Application (PTO-152)			

Application/Control Number: 10/719,998 Page 2

Art Unit: 2838

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

- 2. Claims 7 and 8 are objected to because they are improper since they are dependent claims that do not further limit the recitations of claim 1 or 4 and instead merely rename the step-down circuit or power supply circuit as a semiconductor integrated circuit. Appropriate correction is required.
- 3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claims 1 and 7 are rejected under 35 U.S.C. 102(e) as being anticipated by Botker et al (US 6,661,683).

Botker et al discloses a step-down circuit (see lines 26-29 of column 1) comprising a clock control circuit (88) providing a plurality of clock signals (S2-S10B) based on a control signal (OFFV+B or OFFV-B or V+NV-), a charge pump circuit (90) receiving a first potential and supplying a second potential by switching a plurality of capacitors (40-46) with the plurality of clock signals, and a comparator (56-60) producing the control signal.

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Application/Control Number: 10/719,998 Page 3

Art Unit: 2838

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

6. Claim 2 is rejected under 35 U.S.C. § 103(a) as being unpatentable over Botker et al.

Botker et al discloses a step-down circuit as explained above and as recited by claim 2 except for utilizing a circuit supplied with the input voltage to generate the reference voltage. Official notice is taken that utilizing a circuit supplied with an input voltage to generate a reference voltage was an old and known expedient in the art at the time of the invention. It would have been obvious to one of ordinary skill in the art at the time of the invention to have modified the step-down circuit disclosed by Botker et al by utilizing a circuit supplied with the input voltage to generate the reference voltage in order to supply a reference voltage without requiring an additional voltage source.

- 7. Claims 3 and 9 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 8. Claim 8 would be allowable if rewritten to overcome the objection set forth above in this Office action .
- 9. Claims 4-6 and 10 are allowed.
- 10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Application/Control Number: 10/719,998

Tamagawa (US 5,461,557), Ohnishi et al. (US 5,608,614), Kowshik et al. (US 5,625,544), and Lin et al. (US 6,642,773) are cited to show power supply circuits old and known in the art at the time of the invention.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffrey L. Sterrett whose telephone number is (571) 272-2085. The examiner can normally be reached on Monday-Thursday & 8:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Sherry can be reached on (571) 272-2084. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jeffrey L. Sterrett Primary Examiner Art Unit 2838

Jeffy L Somutt